

AMENDMENTS

Amendments to the Claims

1-47. (Canceled)

48. (Previously presented) A method of treating poisoning by a clostridial toxin in a patient in need thereof, the method comprising the step of administering an effective amount of a toxin-resistant SNAP-25 or a toxin-inhibitory SNAP-25 to the patient;

wherein the toxin-resistant SNAP-25 is a SNAP-25 capable of performing substantially the equivalent function to a naturally-occurring SNAP-25, but resistant to proteolysis by the clostridial toxin;

wherein the toxin-inhibitory SNAP-25 is a SNAP-25 capable of performing substantially the equivalent function to a naturally-occurring SNAP-25, but further capable of inhibiting the protease activity of the clostridial toxin;

wherein administration of the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 produces a clinically useful or significant reduction in a symptom of poisoning caused by the clostridial toxin in the patient suffering from clostridial toxin poisoning.

49. (Canceled)

50. (Previously presented) A method of preventing poisoning by a clostridial toxin in a patient in need thereof, the method comprising the step of administering an effective amount of a toxin-resistant SNAP-25 or a toxin-inhibitory SNAP-25 to the patient;

wherein the toxin-resistant SNAP-25 is a SNAP-25 capable of performing substantially the equivalent function to a naturally-occurring SNAP-25, but resistant to proteolysis by the clostridial toxin;

wherein the toxin-inhibitory SNAP-25 is a SNAP-25 capable of performing substantially the equivalent function to a naturally-occurring SNAP-25, but further capable of inhibiting the protease activity of the clostridial toxin;

wherein administration of the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 produces a clinically useful or significant reduction in a symptom of poisoning caused by the clostridial toxin in the patient at risk of poisoning when exposed to the clostridial toxin.

51-52. (Canceled)

53. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin is a botulinum toxin type A.

54. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin is botulinum toxin type C1.

55. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin is botulinum toxin type E.

56. (Canceled)

57. (Currently amended) The method of either claim 48 or claim 50, wherein the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 comprises a replacement of a residue equivalent to residue Q197 of full length SNAP-25 by a residue other than Q_i

wherein residue 197 corresponds to the P1 position flanking the bond cleaved by botulinum toxin type A

58. (Currently amended) The method of either claim 48 or claim 50, wherein the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 comprises a replacement of a residue equivalent to residue R198 of full length SNAP-25 by a residue other than R_i

wherein residue 198 corresponds to the P'1 position flanking the bond cleaved by botulinum toxin type A or the P1 position flanking the bond cleaved by botulinum toxin type C1.

59. (Previously presented) The method of claim 57, wherein the residue equivalent to residue Q197 of full length SNAP-25 is replaced by a residue selected from the group consisting of A, K and W.

60. (Previously presented) The method of claim 58, wherein the residue equivalent to R198 of full length human SNAP-25 is replaced by a residue selected from the group consisting of A, T, K, H and W.

61. (Cancelled)

62. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin poisoning is botulism.

63-68. (Canceled)

69. (Previously presented) The method of either claim 48 or claim 50, wherein the patient is an infant.

70. (Previously presented) The method of either claim 48 or claim 50, the patient is an adult.

71-72 (Canceled)

73. (Previously presented) The method of either claim 48 or claim 50, further comprising the step of treating the patient with an inhibitor of the clostridial toxin.

74. (Canceled)

75. (Currently amended) The method of claim 73, wherein the clostridial toxin inhibitor is ~~N-acetyl-CRATML-carboximide~~ N-acetyl-CRATKML-carboxamide.

76-103. (Canceled)